

repetitive and routine fabrication of satellite and launch vehicle systems to qualified industries after building adequate safeguards in the contracts.

(c) The present demand of 3 to 4 satellites per year is being satisfactorily met from the industries as well as in-house capacity.

(d) The main objective of outsourcing the repetitive and routine fabrication activities to industry is to enable ISRO concentrate on research and development. The sensitive technologies are still kept within ISRO.

### **Development of VSSC Thumba**

2543. SHRI THENNALA G. BALAKRISHNA PILLAI: Will the PRIME MINISTER be pleased to state:

(a) whether Government have any proposal for the Development of Vikram Sarabhai Space Research Centre (VSSC), Thumba, Trivandrum; and

(b) if so, the details thereof?

THE MINISTER OF STATE IN THE PRIME MINISTER'S OFFICE (SHRI PRITHVIRAJ CHAVAN): (a) and (b) Vikram Sarabhai Space Centre (VSSC) at Thiruvananthapuram is the lead Centre for design and development of launch vehicle systems. Apart from the ongoing programmes of Polar Satellite Launch Vehicle (PSLV), Geosynchronous Satellite Launch Vehicle (GSLV) and GSLV MkIII, VSSC is involved in the development of technologies for reusable launch vehicles, studies on manned space missions and long term research and development of advanced technologies. Suitable augmentation and development of facilities is an ongoing process based on the programmatic needs.

### **Manned mission to space**

2544. SHRI RAJKUMAR DHOOT: Will the PRIME MINISTER be pleased to state:

(a) whether it is a fact that ISRO has planned a manned space mission by 2014 and subsequently put a man on moon by 2020;

(b) if so, the details thereof;

(c) whether the space craft would be produced indigenously or with foreign collaboration;

(d) the details in the case of foreign collaboration; and

(e) the total cost involved and the yearly allocation of fund provided for the purpose?

**THE MINISTER OF STATE IN THE PRIME MINISTER'S OFFICE (SHRI PRITHVIRAJ CHAVAN):** (a) and (b) ISRO has carried out detailed study on the feasibility of undertaking indigenous manned space mission to low earth orbit, in about 8 to 10 years time frame. Towards this, studies covering various aspects of design and development of manned capsule, man rating of launch vehicle, safety and reliability, crew training, critical long term facilities etc., were presented to a gathering of prominent Scientists and Technologists, The Scientists have recommended the Indian manned mission initiative. No detailed study has been carried out on manned mission to moon.

(c) and (d) Feasibility exists to realize the manned capsule indigenously with involvement and participation from various national agencies, R&D laboratories, academic institutions and industry.

(e) The detailed cost estimate for the manned space mission is not made, however, the preliminary assessment is that the programme for the manned space mission to low earth orbit may need about Rs. 10,000 crores spread over a period of nearly 8 to 10 years.

#### **Expenditure due to delayed completion**

†2545. **SHRI RAJ MOHINDER SINGH MAJITHA:**

**SHRI RAM JETHMALANI:**

Will the Minister of **STATISTICS AND PROGRAMME IMPLEMENTATION** be pleased to state:

(a) whether it is a fact that Government have to incur additional expenditure than that fixed due to delayed completion of under construction projects in the country;

(b) if so, the additional amount than that of fix one spent against construction of project till 31st March, 2006 by Government;

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†Original notice of the question was received in Hindi.